

AUTOMOTIVE TECHNOLOGY ASSOCIATE IN SCIENCE DEGREE

Division: Technology and Engineering

PROGRAM CODE: 2S03838

The **Automotive Technology Associate in Science Degree** is designed to provide the student with the knowledge and skills needed for employment in the following automotive industry areas: Engine Repair, Automatic Transmissions/Transaxles Repair, Manual Drive Trains and Axles Repair, Suspension and Steering Repair, Brakes Repair, Electrical and Electronics Repair, Heating and Air Conditioning Repair, Engine Performance Repair, Service Consulting, Service Management, and Parts Control. This degree requires a total of 42.5 - 49.5 units. A grade of C or better is required for all courses taken.

Code	Title	Units
Required Courses (38.5 units)		
AUTO 100 F	Automotive Fundamentals (formerly AUTO 131 F)	4.5
AUTO 110 F	Automotive Engine Rebuilding (formerly AUTO 081 F)	8
AUTO 120 F	Automatic Transmission Fundamentals (formerly AUTO 086 F)	3
AUTO 140 F	Automotive Suspension and Wheel Alignment (formerly AUTO 083 F)	8
AUTO 150 F	Automotive Brake Systems (formerly AUTO 073 F)	7
AUTO 180 F	Automotive Engine Performance and Drivability (formerly AUTO 082 F)	8
Restricted Electives (4-11 units)		4-11
AUTO 111 F	Automotive Engine Repair (formerly AUTO 070 F)	7
AUTO 112 F	Automotive Cylinder Head Repair (formerly AUTO 091 F)	4
AUTO 121 F	Automatic Transmissions (formerly AUTO 084 F)	8
AUTO 130 F	Automotive Powertrains (formerly AUTO 060 F)	5
AUTO 160 F	Automotive Electrical and Electronic Systems (formerly AUTO 065 F)	5
AUTO 170 F	Automotive Heating and Air Conditioning (formerly AUTO 089 F)	4
AUTO 181 F	Automotive Fuel Systems and Advanced Drivability Diagnosis (formerly AUTO 088 F)	4
AUTO 182 F	Automotive Emission Control Systems and Advanced Diagnosis (formerly AUTO 090 F)	6
AUTO 195 F	Automotive Specialty Practice (formerly AUTO 050 F)	2
AUTO 196 F	Automotive Internship (formerly AUTO 051 F)	2-4
AUTO 197 F	Automotive Service Management (formerly AUTO 055 F)	3

WELD 100 F	Introduction to Welding (formerly WELD 121AF)	3
Total Units		42.5-49.5

Outcome 1: Demonstrate or explain safe work habits when using tools and equipment to repair automotive systems and comply with all local, state, federal, and international regulations regarding hazardous waste handling, disposal, and record keeping.

Outcome 2: Point out automotive components and explain their function within the following automotive subsystems: engine, transmission, drivetrain, electrical, engine performance, suspension, steering, brakes, and air conditioning.

Outcome 3: Evaluate vehicle malfunctions, explain or demonstrate diagnostic procedures, interpret diagnostic test results, recommend repairs or corrective action, and explain or proficiently perform vehicle repairs following vehicle manufacturers' specifications.

Outcome 4: Compose a written vehicle repair estimate including parts and labor, collaborate with other staff members to inform the customer, and summarize the repairs performed on a vehicle repair order using the industry standard concern, cause, and correction format.

Outcome 5: Plan or participate in automotive technology update training or industry style certification testing to stay current with emerging automotive repair skills and industry requirements.

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